Death or Death Decision

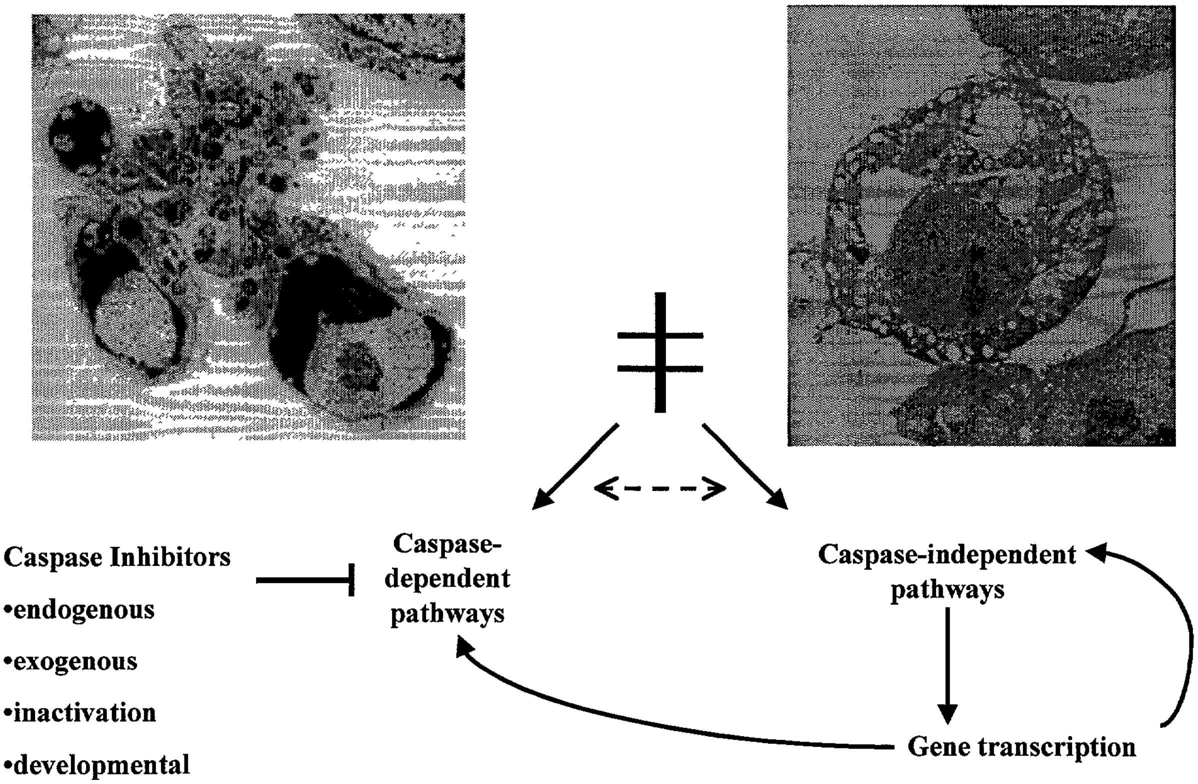

Figure 1

1.7 fold or greater differential expression
50% or greater spot area
200 or greater probe signal strength
Induced and repressed genes combined

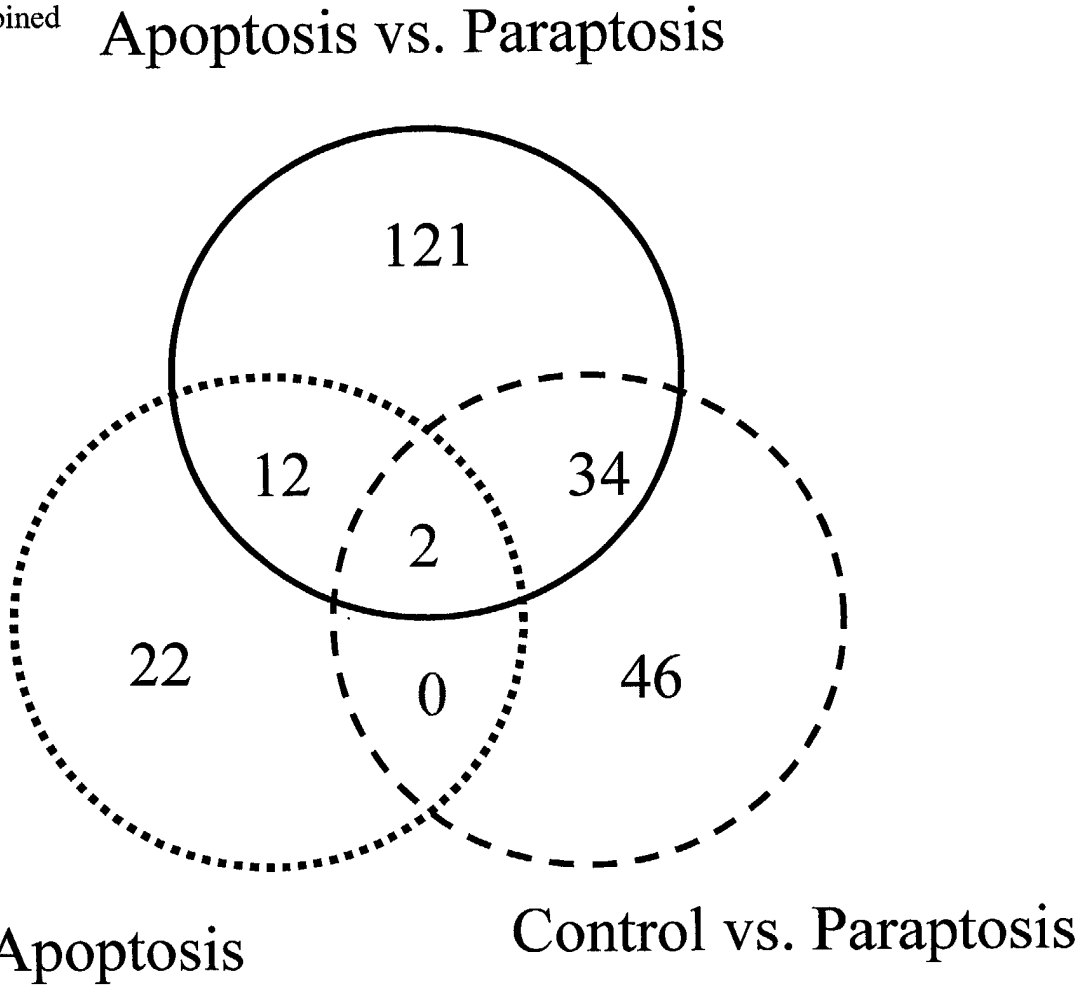

FIGURE 2

Numbers in circles indicate the number of differentially expressed genes identified using a 7075 gene Human unigene cDNA gene expression microarray. Numbers in the outer portions of tehcircles are the uniquely expressed genes, those in the intersections are common to both experiments. Note the lack of overlap (only 2 of 116 transcripts) between paraptosis and apoptosis.

Apoptosis vs. Paraptosis: Inhibitors

	Apoptosis	Paraptosis
p35	Inhibits	No
xiap	Inhibits	No
zVAD.fmk	Inhibits	No
BAF	Inhibits	No
Bcl-xL	Inhibits	No
Bcl-2	Inhibits	No

FIGURE 3

Apoptosis vs. Paraptosis: Morphology

	Apoptosis	Paraptosis
Nuclear fragmentation	Yes	No
Chromatin condensation	Yes	Slight
Cytoplasmic vacuolation	No	Yes
Mitochondrial swelling	Some	Some
Blebbing	Yes	No
Apoptotic bodies	Yes	No

FIGURE 4

Apoptosis vs. Paraptosis: Biochemistry

	Apoptosis	Paraptosis
DEVD-cleaving activity	Yes	No
Caspase-3 processing	Yes	No
TUNEL staining	Yes	No
Internucleo-somal DNA cleavage	Yes	No

FIGURE 5